Patent claims

1. Housing (1) for acceptance of an airbag module for a motor vehicle, in which at least two opposite side walls (2, 3) are formed so as to be capable of different degrees of deformation,
characterised in that
the side wall (3) which is more capable of deformation exhibits a basically flat surface section (4), which is capable of deformation in the case of force (F) exerted in the direction of housing floor (5), and which remains stable as regards its form if pull force basically directed away from housing floor (5) is applied.

2. Housing according to Claim 1, characterised in that an acceptance area (6) for a gas generator (18) is integrated into the side wall (2) which is less capable of deformation.

3. Housing according to Claim 1 or 2, characterised in that a rotation or bending round section (9) is formed in a flange area (8) of the side wall (2) which is less capable of deformation, round which an interior cladding element (10) can basically be swivelled in the direction of the housing floor (5) in case of deformation of the side wall (3) which is more capable of deformation.

4. Housing according to at least one of the previous claims, characterised in that the side wall (3) which is more capable of deformation exhibits deformation elements in a flat surface area (4), which lead to weakening of the mechanical stability of this side wall (3).

5. Housing according to Claim 4, characterised in that the deformation elements are in the form of deformation bridges (11, 12, 13), which are arranged in the side wall (3) which is more easily capable of deformation next to cut-outs (14, 15).

6. Housing according to Claim 5, characterised in that the cut-outs (14, 15) are in the form of holes or individual seams.

7. Housing according to Claim 5 or 6, characterised in that cut-outs (14, 15) and/or deformation bridges (11, 12, 13) are formed in the side wall (3) more easily capable of deformation in such a way that they allow a predefined course of deformation as well as a predetermined final deformation geometry.

8. Housing according to at least one of the previous claims, characterised in that the stability of the side wall (3) more easily capable of deformation, because of the selection and arrangement of cut-outs (14, 15) and bridges (11, 12, 13), is designed in such a way that is only yields mechanically after the application of a predetermined force (F).

9. Housing according to at least one of the previous claims, characterised in that deformation bridges (11, 12, 13) exhibit deformation structures (35) which are formed in.

10. Housing according to at least one of the previous claims, characterised in that an injection channel (16) is

integrated into housing (1) for targeted unfolding of the airbag of the airbag module, whose one channel wall is at least partially formed by side wall (3) which is more capable of deformation.

11. Housing according to at least one of the previous claims, characterised in that the side wall (3) which is more easily capable of deformation is formed in several parts, whereby a first side wall part (17) is formed in one piece with the housing floor (5), while the other side wall part (19) is formed by the deformation bridges (11, 12, 13) formed on the first side wall part (17).

12. Housing according to Claim 11, characterised in that the free ends of the deformation bridges (11, 12, 13 are connected with a flange area (20) for fixing the interior cladding element (10).

13. Housing according to Claim 12, characterised in that deformation bridges (11, 12, 13) in their undeformed state are at a defined distance (21) to the first side wall part (17) and in the case of a deformation (12') basically support themselves on this first side wall part (17 crosswise to deformation force (F).

14. Housing according to at least one of the previous claims, characterised in that this is formed in two parts, whereby a first side housing part (22) forms at least a part of wall (17, 19) of housing (1), housing floor (5), the acceptance area for the airbag module and also the flange area (8) with the rotation or bend round section (9), while a second side housing part (23) consists of the deformation bridges (11, 12, 13), and the cut-outs (14,

15), the other flange area (24) for fixing of an interior cladding element (10) and an upper section (25) of injection channel(16).

15. Housing according to at least one of the previous claims, characterised in that the injection channel (16) is basically formed by the second side housing part (23).

16. Housing according to at least one of the previous claims, characterised in that a support element (28) is formed in one piece on the floor (5) of housing (1) or the first side housing part (22) or is fixed to this by fixing means (26, 27).

17. Housing according to at least one of the previous claims, characterised in that this housing (1) is itself formed as an airbag module, in which the gas generator (18), the airbag, the deformation section (4), the injection channel (16) for the airbag as well as the flange areas (20, 24) are arranged or formed for fixing of interior cladding element (10).

18. Housing according to at least one of the previous claims, characterised in that this housing is covered by a cover foil (29) on its open side.

19. Housing according to at least one of the previous claims, characterised in that this housing is formed as a passenger airbag module.